

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A system for actively managing configurable components, comprising:

a plurality of ~~individual~~ components ~~in a managed domain~~, each ~~individual~~ component storing a configuration comprising a set of configuration parameters;

a repository that stores information about a configuration policy;

a ~~management system server~~, configured to (a) register registering each of the plurality of components such individual component, (b) perform performing dynamic probing operations to identify configuration changes made to the configuration of each of the plurality of individual components that have been made at the individual components, and (c) validate validating the identified configuration changes against the configuration policy to determine whether the configuration changes conform to the configuration policy based on information maintained for the management server.
2. (Currently amended) A system according to Claim 1, wherein the configuration policy defines, for each configuration parameter of the configuration of each of the plurality of components, a value range for which the configuration parameter will be successfully validated by the server ~~further comprising:~~

~~a service interface discovering a change in at least one such configuration parameter through dynamic probing.~~

3. (Currently amended) A system according to Claim 1 ~~[[2]]~~, further comprising:

wherein the server comprises

a set of core services for responding to taking action on the an discovered identified configuration change, wherein the set of core services comprises comprising at least one of:

a first service for changing a value of at least one ~~such~~ configuration parameter ~~back~~ to a default or previously validated value;

a second service for auditing the at least one such the configuration parameters of the configuration of at least one of the plurality of components parameter;

a third service for generating an alert regarding the configuration parameters of the configuration of at least one of the plurality of components about the at least one such configuration parameter; and

a fourth service for acquiescing to the identified configuration discovered change.

4. (Currently amended) A system according to Claim 1 ~~[[2]]~~, further comprising:

a log storing ~~the probed~~ data that identifies an identified configuration change made to the configuration of the particular component in the at least one such configuration parameter.

5. (Currently amended) A system according to Claim 1, further comprising:

a configuration and validation module for performing an impact analysis on the identified configuration changes against ~~on the enterprise plurality of components against at least one such configuration parameter.~~

6. (Cancelled).

7. (Currently amended) A method for actively managing configurable components, comprising:

maintaining a repository, accessible to a server, that stores ~~storing a configuration information about a configuration policy for a plurality of individual components in a managed domain, comprising a set of configuration parameters;~~

registering, with the server, each such individual component, of a plurality of components;

performing dynamic probing operations to identify configuration changes of the individual components that have been made at ~~to a configuration of each of the plurality of the individual components; and~~

validating, at the server, the identified configuration changes parameters and type definitions based on ~~against the a configuration policy to determine whether the identified configuration changes conform to the configuration policy master set of configuration parameters and type definitions defined for an enterprise.~~

8. (Currently amended) A method according to Claim 7, wherein the configuration policy defines, for each configuration parameter of the configuration of each of the

plurality of components, a value range for which the configuration parameter will be successfully validated by the server further comprising:
~~discovering a change in at least one such configuration parameter through dynamic~~
~~probing.~~

9. (Currently amended) A method according to Claim 7[[8]], further comprising:
responding to taking action on an the discovered identified configuration change,
comprising by performing at least one of:
changing a value of at least one such configuration parameter back to a default
or previously validated value;
auditing configuration parameters of the configuration of at least one of the
plurality of components the at least one such configuration parameter;
generating an alert regarding the configuration parameters of the configuration
of at least one of the plurality of components about the at least one
such configuration parameter; and
acquiescing to the discovered identified configuration change.
10. (Currently amended) A method according to Claim 7 [[8]], further comprising:
logging the probed data that identifies an identified configuration change made to the
configuration of the particular component to a log file in the at least one such
configuration parameter.
11. (Currently amended) A method according to Claim 7, further comprising:
performing an impact analysis on the identified configuration changes against the
plurality of components against at least one such configuration parameter.

12. (Cancelled).

13. (Cancelled).

14. (Currently amended) A system, comprising:

a plurality of ~~individual~~ components, wherein each component, of the plurality of components, comprises each comprising a client module for accessing configuration parameters of a configuration of the component of configurable individual components;

a management server which maintains ~~maintaining~~ a database repository for storing information about a configuration policy master document type definitions and global parameter definitions; and

a management console capable of accessing the ~~database~~ repository, wherein the management console comprises and comprising:

at least one service interface for retrieving the configuration of a particular component, of the plurality of components, by communicating with the client module associated with the particular component stored document type definitions for each individual component via the corresponding client module;

a parser for extracting the configuration parameters from each retrieved configuration document type definition with the master document type definitions; and

a validator for validating each extracted configuration parameter against the
configuration policy ~~validated configuration parameters in the global~~
~~parameter definitions.~~

15. (Currently amended) A system according to Claim 14, further comprising:
at least one adapter for accessing component-specific configuration parameters of the
configuration of at least one of the plurality of components ~~maintained with at~~
~~least one such individual component.~~
16. (Currently amended) A system according to Claim 14, further comprising:
at least one component-specific adapter for dynamically probing the plurality of
~~individual~~ components.
17. (Currently amended) A system according to Claim 14, further comprising:
a component parameter relationship dependency tree formed from the extracted
configuration parameters; and
an impact analyzer for analyzing the effect of making a configuration change, to the
configuration of a particular component, of the plurality of components,
~~determining propagated changes by~~ traversing the component parameter
relationship dependency tree.
18. (Currently amended) A system according to Claim 14, further comprising:
a change manager for effecting a change to a configuration parameter ~~with at least~~
~~one such individual component.~~
19. (Currently amended) A system according to Claim 14, further comprising:

a set of one or more XML documents comprising doelets formed from the extracted configuration parameters.

20. (Currently amended) A system according to Claim 14 [[19]], wherein the configuration policy is expressed in a set of global parameter definitions and document type definitions ~~the doelets are written in a scripting language comprising the Extensible Markup Language.~~

21. (Currently amended) A system according to Claim 14, further comprising:
validation services, wherein the validation services perform ~~comprising~~ at least one of:

managing ~~at least one such~~ the configuration parameters of the configuration of the plurality of components parameter;

advising an administrator ~~about at least one such~~ the configuration parameters of the configuration of the plurality of components parameter;

alerting an administrator ~~about at least one such~~ the configuration parameters of the configuration of the plurality of components parameter; and

acquiescing to the modification of at least one such the configuration parameters of the configuration of the plurality of components parameter.

22. (Previously presented) A system according to Claim 14, further comprising:
a browsing service providing a user interface management console.

23. (Currently amended) A system according to Claim 14, further comprising:
a management configuration module for registering new ~~such individual~~ components.

24. (Currently amended) A system according to Claim 14, further comprising:
a management configuration module capable of receiving XML documents, which
describe the configuration parameters of the configuration of a particular
component, when the configuration of the particular component is changed
~~updating changed such individual components.~~
25. (Currently amended) A system according to Claim 14, wherein at least one of the
plurality of the individual components corresponds to ~~comprise~~ at least one of a Web
server, an internet application server, and a database server.
26. (Currently amended) A method, comprising:
~~interfacing to a plurality of individual components that each comprise a client module~~
~~for accessing configuration parameters of configurable individual~~
~~components;~~
maintaining a database repository for storing information about a configuration policy
~~master document type definitions and global parameter definitions; and~~
~~accessing the database repository and actively managing the individual components,~~
~~comprising:~~
retrieving the configuration stored document type definitions for of each of a
plurality of components individual component via the by communicating with
a corresponding client module residing at each component of the plurality of
components;

extracting, from each configuration retrieved, a set of ~~the~~ configuration parameters
~~from each retrieved document type definition with the master document type~~
~~definitions; and~~
validating each extracted configuration parameter against the configuration policy
~~validated configuration parameters in the global parameter definitions.~~

27. (Currently amended) A method according to Claim 26, further comprising:
accessing component-specific configuration parameters of the configuration of at
least one of the plurality of components ~~maintained with at least one such~~
~~individual component.~~
28. (Currently amended) A method according to Claim 26, further comprising:
dynamically probing each component, of the plurality of components, to determine
whether the configuration of the component has been changed ~~the individual~~
~~components.~~
29. (Currently amended) A method according to Claim 26, further comprising:
forming a component parameter relationship dependency tree from the extracted
configuration parameters; and
~~determining propagated changes~~ determining the effect of making a configuration
change, to the configuration of a particular component, of the plurality of
components, by traversing the component parameter relationship dependency
tree.
30. (Currently amended) A method according to Claim 26, wherein the configuration
policy defines, for each configuration parameter of the configuration of each of the

plurality of components, a value range for which the configuration parameter will be successfully validated ~~further comprising:~~
~~effecting a change to a configuration parameter with at least one such individual~~
~~component.~~

31. (Currently amended) A method according to Claim 26, wherein further comprising:
forming a set of doclets formed the extracted configuration parameters are expressed
in one or more XML documents.
32. (Currently amended) A method according to Claim 26 ~~[[31]]~~, wherein the
configuration policy is expressed in a set of global parameter definitions and
document type definitions ~~the doclets are written in a scripting language comprising~~
~~the Extensible Markup Language.~~
33. (Currently amended) A method according to Claim 26, further comprising on or more
of the following steps:
~~providing validation services, comprising at least one of:~~
~~managing at least one such~~ the configuration parameters of the configuration of the
plurality of components parameter;
~~advising an administrator about at least one such~~ the configuration parameters of the
configuration of the plurality of components parameter;
~~alerting an administrator about at least one such~~ the configuration parameters of the
configuration of the plurality of components parameter; and
~~acquiescing to the modification of the~~ to at least one such configuration parameters of
the configuration of the plurality of components parameter.

34. (Previously presented) A method according to Claim 26, further comprising:
providing a browsing service comprising a user interface management console.
35. (Currently amended) A method according to Claim 26, further comprising:
registering new ~~such individual~~ components with a management configuration
module.
36. (Currently amended) A method according to Claim 26, further comprising:
receiving, at a management configuration module, XML documents that describe the
configuration parameters of the configuration of a particular component, when
the configuration of the particular component is changed
~~updating changed such individual components~~.
37. (Currently amended) A method according to Claim 26, wherein at least one of the
plurality of the individual components corresponds to ~~comprise~~ at least one of a Web
server, an internet application server, and a database server.
38. (Cancelled).
39. (Currently amended) A system according to Claim 1, wherein the information
indicates a relationship dependency between a first configuration parameter in the
configuration of a first one individual component and a second configuration
parameter in the configuration of a different ~~another individual~~ component.
40. (Currently amended) A system according to Claim 39, wherein the ~~management~~
server validates the configuration, for the first component, based upon the

relationship dependency between the first configuration parameter and the second configuration parameter.

41. (Previously Presented) A system according to Claim 1, wherein the information includes at least one document type definition defining a mapping between the configuration of at least two of the plurality of individual components.
42. (Currently amended) A method according to Claim 7, wherein the information indicates a relationship dependency between a first configuration parameter in the configuration of a first one individual component and a second configuration parameter in the configuration of a different ~~another individual~~ component.
43. (Currently amended) A method according to Claim 42, wherein the ~~management~~ server validates the configuration, for the first component, based upon the relationship dependency between the first configuration parameter and the second configuration parameter.
44. (Previously Presented) A method according to Claim 7, wherein the information includes at least one document type definition defining a mapping between the configuration of at least two of the plurality of individual components.
45. (New) A method according to Claim 7, wherein a particular configuration change comprises a change to a configuration parameter or type definition associated with a particular component.
46. (New) A method according to Claim 7, wherein the configuration policy, stored in the repository, includes a master set of configuration parameters and type definitions for each of the plurality of components.

47. (New) A system according to Claim 39, wherein the relationship dependency comprises one of one-way, two-way, cyclic, one-to-many, many-to-one, and many-to-many.
48. (New) A method according to Claim 42, wherein the relationship comprises one of one-way, two-way, cyclic, one-to-many, many-to-one, and many-to-many.
49. (New) A computer-readable storage medium holding code which, when executed, performs the method according to any one of Claims 7, 8, 9, 10, 11, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, and 48.